GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: January 29, 2002, 20:56:02 ; Search time 81.07 Seconds
(without alignments)
108.951 Million cell updates/sec

Title: US-09-432-546-15
Perfect score: 39
Sequence: 1 aggagatggccttggtggccttggaaatggcctcttatt 39

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 113238999 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
c	1	20.8	53.3	1680	4	US-09-603-185-1	Sequence 1, Appli
	2	20.6	52.8	15328	2	US-08-888-497-33	Sequence 33, Appl
	3	20.6	52.8	15328	5	PCT-US94-07926-33	Sequence 33, Appl
	4	19.8	50.8	107	4	US-08-943-731-47	Sequence 47, Appl
	5	19.8	50.8	2974	1	US-08-290-978A-4	Sequence 4, Appli
	6	19.8	50.8	2974	2	US-08-780-869-4	Sequence 4, Appli
	7	19.8	50.8	18609	4	US-08-943-731-1	Sequence 1, Appli
	8	19.8	50.8	33529	4	US-09-144-085-3	Sequence 3, Appli
	9	19.6	50.3	71989	4	US-09-443-501A-2	Sequence 2, Appli
	10	19.4	49.7	423	1	US-08-470-179-111	Sequence 111, App
	11	19.4	49.7	423	1	US-08-470-179-147	Sequence 147, App
	12	19.4	49.7	918	4	US-09-248-588-12	Sequence 12, Appl
	13	19.4	49.7	1263	5	PCT-US96-10602-9	Sequence 9, Appli
	14	19.4	49.7	1801	1	US-08-391-000-41	Sequence 41, Appl
	15	19.4	49.7	1801	2	US-08-741-931-41	Sequence 41, Appl
c	16	19.2	49.2	3113	1	US-08-146-422-20	Sequence 20, Appl
c	17	19.2	49.2	3113	1	US-08-626-554-2	Sequence 2, Appli
	18	19.2	49.2	246240	2	US-08-724-394A-20	Sequence 20, Appl
	19	19.2	49.2	246240	2	US-08-724-394A-21	Sequence 21, Appl
	20	19.2	49.2	246240	2	US-08-724-394A-22	Sequence 22, Appl
	21	19	48.7	702	2	US-09-024-848-3	Sequence 3, Appli
	22	19	48.7	702	4	US-09-348-116A-3	Sequence 3, Appli
	23	19	48.7	879	2	US-09-024-848-1	Sequence 1, Appli
	24	19	48.7	879	4	US-09-348-116A-1	Sequence 1, Appli
c	25	19	48.7	1102	2	US-08-742-440A-5	Sequence 5, Appli
c	26	19	48.7	1131	1	US-08-181-271A-22	Sequence 22, Appl
c	27	19	48.7	1131	1	US-08-449-315-22	Sequence 22, Appl
c	28	19	48.7	1131	1	US-08-444-803-22	Sequence 22, Appl
c	29	19	48.7	1131	1	US-08-449-043-22	Sequence 22, Appl
c	30	19	48.7	1131	1	US-08-456-265A-22	Sequence 22, Appl
c	31	19	48.7	1131	1	US-08-455-416-22	Sequence 22, Appl
c	32	19	48.7	1131	1	US-08-455-244-22	Sequence 22, Appl
c	33	19	48.7	1131	1	US-08-454-876-22	Sequence 22, Appl
c	34	19	48.7	1131	2	US-08-457-364-22	Sequence 22, Appl
c	35	19	48.7	1131	2	US-08-456-262-22	Sequence 22, Appl
c	36	19	48.7	1131	2	US-08-456-240-22	Sequence 22, Appl
c	37	19	48.7	1131	2	US-08-455-736-22	Sequence 22, Appl
c	38	19	48.7	1131	2	US-08-971-217-22	Sequence 22, Appl
c	39	19	48.7	1131	4	US-09-350-600-22	Sequence 22, Appl
c	40	19	48.7	1224	2	US-08-742-440A-4	Sequence 4, Appli
	41	19	48.7	1437	4	US-09-446-504-63	Sequence 63, Appl
c	42	19	48.7	1839	1	US-08-152-019A-44	Sequence 44, Appl
c	43	19	48.7	1839	3	US-08-482-677-1	Sequence 1, Appli
	44	19	48.7	3574	4	US-09-446-504-83	Sequence 83, Appl
	45	19	48.7	8460	1	US-08-469-005A-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1
US-09-603-185-1/c
; Sequence 1, Application US/09603185
; Patent No. 6271004
; GENERAL INFORMATION:
; APPLICANT: Warthoe, Peter
; TITLE OF INVENTION: A METHOD FOR IMPROVED REVERSE TRANSCRIPTION AT HIGH TEMPERATUR
; FILE REFERENCE: 674513-2002
; CURRENT APPLICATION NUMBER: US/09/603,185
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: DK199900897
; PRIOR FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 1680
; TYPE: DNA
; ORGANISM: Pyrococcus sp.
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (39)..(1637)
US-09-603-185-1

Query Match 53.3%; Score 20.8; DB 4; Length 1680;
Best Local Similarity 78.1%; Pred. No. 24;
Matches 25; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```
Qy       3 gagatggccttggtggccttggaaatggcctc 34
           | |||| ||||| ||||| || || ||||||
Db    1381 GGGATGACCTTGAGGGCCTCGGCAAAGGCCTC 1350
```

RESULT 2
US-08-888-497-33
; Sequence 33, Application US/08888497
; Patent No. 5972677
; GENERAL INFORMATION:
; APPLICANT: Tischfield, Jay A.
; APPLICANT: Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Mammalian Phospholipase A2 Nucleotide
; TITLE OF INVENTION: Sequences and Low Molecular Weight Amino Acid Sequences
; TITLE OF INVENTION: Encoded Thereby, Antisense Sequences and Nucleotide
; TITLE OF INVENTION: Sequences Having Internal Ribosome Binding Sites
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ruden, Barnett, McClosky, Smith, Schuster &
; ADDRESSEE: Russell PA
; STREET: 200 East Broward Boulevard
; CITY: Fort Lauderdale

; STATE: FL
; COUNTRY: USA
; ZIP: 33301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/888,497
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/651,405
; FILING DATE:
; APPLICATION NUMBER: US 08/097,354
; FILING DATE: 26-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Manso, Peter J.
; REGISTRATION NUMBER: 32,264
; REFERENCE/DOCKET NUMBER: IN21044-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 305-527-2498
; TELEFAX: 305-764-4996
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-888-497-33

Query Match 52.8%; Score 20.6; DB 2; Length 15328;
Best Local Similarity 85.2%; Pred. No. 43;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 gagatggccttggtggccttggaaatg 29
||| ||| ||||| |||| ||||||||
Db 15060 GAGCTGGACTTGGAGGCCATGGAAATG 15086

RESULT 3
PCT-US94-07926-33
; Sequence 33, Application PC/TUS9407926
; GENERAL INFORMATION:
; APPLICANT: Tischfield, Jay A.
; APPLICANT: Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Mammalian Phospholipase A2 Nucleotide
; TITLE OF INVENTION: Sequences and Low Molecular Weight Amino Acid Sequences
; TITLE OF INVENTION: Encoded Thereby, Antisense Sequences and Nucleotide
; TITLE OF INVENTION: Sequences Having Internal Ribosome Binding Sites
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ruden, Barnett, McClosky, Smith, Schuster &
; ADDRESSEE: Russell PA
; STREET: 200 East Broward Boulevard
; CITY: Fort Lauderdale
; STATE: FL
; COUNTRY: USA
; ZIP: 33301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/07926
; FILING DATE: 15-JUL-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/097,354
; FILING DATE: 26-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Manso, Peter J.
; REGISTRATION NUMBER: 32,264
; REFERENCE/DOCKET NUMBER: IN21044-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 305-527-2498
; TELEFAX: 305-764-4996
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
PCT-US94-07926-33

Query Match 52.8%; Score 20.6; DB 5; Length 15328;
Best Local Similarity 85.2%; Pred. No. 43;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 gagatggccttggtggccttggaaatg 29
||| ||| ||||| |||| ||||||||
Db 15060 GAGCTGGACTTGGAGGCCATGGAAATG 15086

RESULT 4
US-08-943-731-47
; Sequence 47, Application US/08943731
; Patent No. 6265157
; GENERAL INFORMATION:
; APPLICANT: PROCKOP, DARWIN J.
; APPLICANT: SPOTILA, LORETTA D.
; APPLICANT: DELTAS, CONSTANTINOS D.
; APPLICANT: SEREDA, LARISA
; APPLICANT: LARSON, ANDREA W.
; APPLICANT: PACK, MICHAEL
; APPLICANT: COLIGE, ALAIN
; APPLICANT: EARLY, JAMES
; APPLICANT: KORKKO, JARMO
; APPLICANT: ALA-KOKKO, LEENA, et al.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
; TITLE OF INVENTION: ALTERED TYPE I OR TYPE IX COLLAGEN GENE SEQUENCES
; NUMBER OF SEQUENCES: 666
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22ND
; STREET: FLR.
; CITY: PHILADELPHIA
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-7086
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,731
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/212,322
; FILING DATE: 14-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/803,628
; FILING DATE: 03-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DOYLE LEARY Ph.D., KATHRYN
; REGISTRATION NUMBER: 36,317
; REFERENCE/DOCKET NUMBER: 9598-27
; TELECOMMUNICATION INFORMATION:

```
;       TELEPHONE:  215-965-1284
;       TELEFAX:  215-567-2991
;       TELEX:  831-494
;   INFORMATION FOR SEQ ID NO:  47:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  107 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA (genomic)
US-08-943-731-47


  Query Match             50.8%;  Score 19.8;  DB 4;  Length 107;
  Best Local Similarity   77.4%;  Pred. No. 35;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy       6 atggccttggtggccttggaaatggcctctt 36
           |||||| | |||||||||   | | ||||||
Db      38 ATGGCCATTGTGGCCTTGCCTAAGCCCTCTT 68


RESULT   5
US-08-290-978A-4
; Sequence 4, Application US/08290978A
; Patent No. 5624834
;  GENERAL INFORMATION:
;    APPLICANT:  KUSTERS-VAN SOMEREN, MARGO A.
;    APPLICANT:  MULLER, YVONNE
;    APPLICANT:  KESTER, HERMANUS C.M.
;    APPLICANT:  VISSER, JACOB
;    APPLICANT:  VAN OOYEN, ALBERT J.J.
;    APPLICANT:  ROLIN, CLAUS
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF THE
;    TITLE OF INVENTION:  EXO-POLYGALACTURONASE GENE FROM ASPERGILLUS
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  2000 Pennsylvania Avenue N.W.
;      CITY:  Washington
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20006-1812
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,978A
;      FILING DATE:  17-OCT-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MURASHIGE, KATE H.
;      REGISTRATION NUMBER:  29,959
;      REFERENCE/DOCKET NUMBER:  4615-0044.00
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 887-1500
;      TELEFAX:  (202) 887-0763
;      TELEX:  90-4030
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2974 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  ORGANISM:  Aspergillus tubigensis
;      STRAIN:  NW756
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  640..945
;    FEATURE:
;      NAME/KEY:  intron
;      LOCATION:  946..1002
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  1003..1371
;    FEATURE:
;      NAME/KEY:  intron
;      LOCATION:  1372..1423
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  1424..1480
;    FEATURE:
;      NAME/KEY:  intron
;      LOCATION:  1481..1538
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  1539..1940
;    FEATURE:
;      NAME/KEY:  intron
;      LOCATION:  1941..1990
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  1991..2092
;    FEATURE:
;      NAME/KEY:  intron
;      LOCATION:  2093..2144
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  2145..2219
;    FEATURE:
;      NAME/KEY:  intron
;      LOCATION:  2220..2272
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  2273..2317
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  join(640..945, 1003..1371, 1424..1480, 1539..1940,
;      LOCATION:  1991..2092, 2145..2219, 2273..2317)
;    FEATURE:
;      NAME/KEY:  misc_feature
;      LOCATION:  640
;      OTHER INFORMATION:  /note= "codon start= 640; product=
;      OTHER INFORMATION:  "exo-polygalacturonase precursor"; gene= "pgaX""
;    FEATURE:
;      NAME/KEY:  sig_peptide
;      LOCATION:  640..705
;    FEATURE:
;      NAME/KEY:  mat_peptide
;      LOCATION:  706..2317
;    FEATURE:
;      NAME/KEY:  misc_feature
;      LOCATION:  706..2317
;      OTHER INFORMATION:  /note= "IDENTIFICATION METHOD:
;      OTHER INFORMATION:  experimental; product= "exo-polygalacturonase mature enzym
;      OTHER INFORMATION:  evidence= EXPERIMENTAL"
US-08-290-978A-4


  Query Match             50.8%;  Score 19.8;  DB 1;  Length 2974;
  Best Local Similarity   69.2%;  Pred. No. 64;
  Matches   27;  Conservative    0;  Mismatches   12;  Indels    0;  Gaps    0;

Qy       1 aggagatggccttggtggccttggaaatggcctcttatt 39
           ||  |||  || ||  ||||||  ||||||| || || |
Db       7 AGAGGATCCCCCTGTCGGCCTTTTAAATGGCTTCCTAGT 45


RESULT   6
US-08-780-869-4
```

```
; Sequence 4, Application US/08780869
; Patent No. 5830737
; GENERAL INFORMATION:
;   APPLICANT:  KUSTERS-VAN SOMEREN, MARGO A.
;   APPLICANT:  MULLER, YVONNE
;   APPLICANT:  KESTER, HERMANUS C.M.
;   APPLICANT:  VISSER, JACOB
;   APPLICANT:  VAN OOYEN, ALBERT J.J.
;   APPLICANT:  ROLIN, CLAUS
;   TITLE OF INVENTION:  CLONING AND EXPRESSION OF THE
;   TITLE OF INVENTION:  EXO-POLYGALACTURONASE GENE FROM ASPERGILLUS
;   NUMBER OF SEQUENCES:  15
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  MORRISON & FOERSTER
;     STREET:  2000 Pennsylvania Avenue N.W.
;     CITY:  Washington
;     STATE:  DC
;     COUNTRY:  USA
;     ZIP:  20006-1812
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/780,869
;     FILING DATE:  24-JAN-1997
;     CLASSIFICATION:  435
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:  US 08/290,978
;     FILING DATE:  17-OCT-1994
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  MURASHIGE, KATE H.
;     REGISTRATION NUMBER:  29,959
;     REFERENCE/DOCKET NUMBER:  4615-0044.00
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  (202) 887-1500
;     TELEFAX:  (202) 887-0763
;     TELEX:  90-4030
; INFORMATION FOR SEQ ID NO:  4:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  2974 base pairs
;     TYPE:  nucleic acid
;     STRANDEDNESS:  double
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  DNA (genomic)
;   HYPOTHETICAL:  NO
;   ANTI-SENSE:  NO
;   ORIGINAL SOURCE:
;     ORGANISM:  ORGANISM:  Aspergillus tubigensis
;     STRAIN:  NW756
;   FEATURE:
;     NAME/KEY:  exon
;     LOCATION:  640..945
;   FEATURE:
;     NAME/KEY:  intron
;     LOCATION:  946..1002
;   FEATURE:
;     NAME/KEY:  exon
;     LOCATION:  1003..1371
;   FEATURE:
;     NAME/KEY:  intron
;     LOCATION:  1372..1423
;   FEATURE:
;     NAME/KEY:  exon
;     LOCATION:  1424..1480
;   FEATURE:
;     NAME/KEY:  intron
;     LOCATION:  1481..1538
;   FEATURE:
;     NAME/KEY:  exon
;     LOCATION:  1539..1940
;   FEATURE:
;     NAME/KEY:  intron
;     LOCATION:  1941..1990
;   FEATURE:
;     NAME/KEY:  exon
;     LOCATION:  1991..2092
;   FEATURE:
;     NAME/KEY:  intron
;     LOCATION:  2093..2144
;   FEATURE:
;     NAME/KEY:  exon
;     LOCATION:  2145..2219
;   FEATURE:
;     NAME/KEY:  intron
;     LOCATION:  2220..2272
;   FEATURE:
;     NAME/KEY:  exon
;     LOCATION:  2273..2317
;   FEATURE:
;     NAME/KEY:  CDS
;     LOCATION:  join(640..945, 1003..1371, 1424..1480, 1539..1940,
;     LOCATION:  1991..2092, 2145..2219, 2273..2317)
;   FEATURE:
;     NAME/KEY:  misc_feature
;     LOCATION:  640
;     OTHER INFORMATION:  /note= "codon start= 640; product=
;     OTHER INFORMATION:  "exo-polygalacturonase precursor"; gene= "pgaX""
;   FEATURE:
;     NAME/KEY:  sig_peptide
;     LOCATION:  640..705
;   FEATURE:
;     NAME/KEY:  mat_peptide
;     LOCATION:  706..2317
;   FEATURE:
;     NAME/KEY:  misc_feature
;     LOCATION:  706..2317
;     OTHER INFORMATION:  /note= "IDENTIFICATION METHOD:
;     OTHER INFORMATION:  experimental; product= "exo-polygalacturonase mature enzym
;     OTHER INFORMATION:  evidence= EXPERIMENTAL"
US-08-780-869-4


  Query Match             50.8%;  Score 19.8;  DB 2;  Length 2974;
  Best Local Similarity   69.2%;  Pred. No. 64;
  Matches   27;  Conservative    0;  Mismatches   12;  Indels    0;  Gaps    0;

Qy      1 aggagatggccttggtggccttggaaatggcctcttatt 39
          ||  |||  || ||  ||||||  |||||||| || || |
Db      7 AGAGGATCCCCCTGTCGGCCTTTTAAATGGCTTCCTAGT 45


RESULT   7
US-08-943-731-1
; Sequence 1, Application US/08943731
; Patent No. 6265157
; GENERAL INFORMATION:
;   APPLICANT:  PROCKOP, DARWIN J.
;   APPLICANT:  SPOTILA, LORETTA D.
;   APPLICANT:  DELTAS, CONSTANTINOS D.
;   APPLICANT:  SEREDA, LARISA
;   APPLICANT:  LARSON, ANDREA W.
;   APPLICANT:  PACK, MICHAEL
;   APPLICANT:  COLIGE, ALAIN
;   APPLICANT:  EARLY, JAMES
;   APPLICANT:  KORKKO, JARMO
;   APPLICANT:  ALA-KOKKO, LEENA, et al.
;   TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR DETECTING
;   TITLE OF INVENTION:  ALTERED TYPE I OR TYPE IX COLLAGEN GENE SEQUENCES
;   NUMBER OF SEQUENCES:  666
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;     STREET:  ONE COMMERCE SQUARE, 2005 MARKET STREET, 22ND
;     STREET:  FLR.
;     CITY:  PHILADELPHIA
```

```
;       STATE:  PA
;       COUNTRY:  USA
;       ZIP:  19103-7086
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/943,731
;       FILING DATE:  03-OCT-1997
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/212,322
;       FILING DATE:  14-MAR-1994
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/803,628
;       FILING DATE:  03-DEC-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DOYLE LEARY Ph.D., KATHRYN
;       REGISTRATION NUMBER:  36,317
;       REFERENCE/DOCKET NUMBER:  9598-27
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  215-965-1284
;       TELEFAX:  215-567-2991
;       TELEX:  831-494
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  18609 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA (genomic)
US-08-943-731-1


  Query Match             50.8%;  Score 19.8;  DB 4;  Length 18609;
  Best Local Similarity   77.4%;  Pred. No. 89;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy      6 atggccttggtggccttggaaatggcctctt 36
          |||||| | |||||||||   | | ||||||
Db  13042 ATGGCCATTGTGGCCTTGCCTAAGCCCTCTT 13072


RESULT   8
US-09-144-085-3
; Sequence 3, Application US/09144085
; Patent No. 6280999
; GENERAL INFORMATION:
;  APPLICANT: Gustafsson, Claes
;  APPLICANT: Betlach, Mary C.
;  APPLICANT: Ashley, Gary
;  APPLICANT: Julien, Bryan
;  APPLICANT: Ziermann, Rainer
;  TITLE OF INVENTION: SORANGIUM POLYKETIDE SYNTHASES AND ENCODING DNA
;  TITLE OF INVENTION: THEREFOR
;  FILE REFERENCE: 30062-20020.20
;  CURRENT APPLICATION NUMBER: US/09/144,085
;  CURRENT FILING DATE: 1998-08-31
;  EARLIER APPLICATION NUMBER: 09/010,809
;  EARLIER FILING DATE: 1998-01-22
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 33529
;   TYPE: DNA
;   ORGANISM: Sorangium cellulosum
US-09-144-085-3


  Query Match             50.8%;  Score 19.8;  DB 4;  Length 33529;
  Best Local Similarity   69.2%;  Pred. No. 99;
  Matches   27;  Conservative    0;  Mismatches   12;  Indels    0;  Gaps    0;

Qy      1 aggagatggccttggtggccttggaaatggcctcttatt 39
          || || |||||||   |||||| |||||   ||  | |
Db  15202 agcagctggccttgcaagccttgcaaatgatttcgaact 15240


RESULT   9
US-09-443-501A-2
; Sequence 2, Application US/09443501A
; Patent No. 6303342
; GENERAL INFORMATION:
;  APPLICANT: Kosan Biosciences, Inc.
;  APPLICANT:  Julien, Bryan
;  APPLICANT:  Katz, Leonard
;  APPLICANT:  Khosla, Chaitan
;  APPLICANT:  Tang, Li
;  APPLICANT:  Ziermann, Rainer
;  TITLE OF INVENTION: Recombinant Methods and Materials for Producing
;  TITLE OF INVENTION:  Epothilone and Epothilone Derivatives
;  FILE REFERENCE: 30062-20031.00
;  CURRENT APPLICATION NUMBER: US/09/443,501A
;  CURRENT FILING DATE:  1999-11-19
;  PRIOR APPLICATION NUMBER: US 60/130,560
;  PRIOR FILING DATE: 1999-04-22
;  PRIOR APPLICATION NUMBER: US 60/122,620
;  PRIOR FILING DATE: 1999-03-03
;  PRIOR APPLICATION NUMBER: US 60/119,386
;  PRIOR FILING DATE: 1999-02-10
;  PRIOR APPLICATION NUMBER: US 60/109,401
;  PRIOR FILING DATE: 1998-11-20
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 71989
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic construct
US-09-443-501A-2


  Query Match             50.3%;  Score 19.6;  DB 4;  Length 71989;
  Best Local Similarity   73.5%;  Pred. No. 1.3e+02;
  Matches   25;  Conservative    0;  Mismatches    9;  Indels    0;  Gaps    0;

Qy      1 aggagatggccttggtggccttggaaatggcctc 34
          ||| || | | | |||| || ||||| ||| |||
Db  13997 aggcgacgccgtgggtgcccgtggaagtgggctc 14030


RESULT  10
US-08-470-179-111
; Sequence 111, Application US/08470179
; Patent No. 5645994
;  GENERAL INFORMATION:
;    APPLICANT:  Huang Ph.D, Wai Mun
;    TITLE OF INVENTION:  Method and Compositions for
;    TITLE OF INVENTION:  Identification of Species in a Sample
;    NUMBER OF SEQUENCES:  207
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Trask, Britt and Rossa
;      STREET:  P.O. Box 2550
;      CITY:  Salt Lake City
;      STATE:  Utah
;      COUNTRY:  USA
;      ZIP:  84110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
```

```
;      APPLICATION NUMBER:  US/08/470,179
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sweigert Ph.D, Susan E.
;      REGISTRATION NUMBER:  36,289
;      REFERENCE/DOCKET NUMBER:  2601
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  801-532-1922
;      TELEFAX:  801-531-9168
;  INFORMATION FOR SEQ ID NO:  111:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  423 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Arthrobacter globiformis
US-08-470-179-111


  Query Match             49.7%;  Score 19.4;  DB 1;  Length 423;
  Best Local Similarity   79.3%;  Pred. No. 64;
  Matches   23;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      4 agatggccttggtggccttggaaatggcc 32
          |||||||   | ||||| |||||||| |
Db    263 AGATGGCACCGCTGGCCATGGAAATGGTC 291


RESULT  11
US-08-470-179-147
; Sequence 147, Application US/08470179
; Patent No. 5645994
;  GENERAL INFORMATION:
;    APPLICANT:  Huang Ph.D, Wai Mun
;    TITLE OF INVENTION:  Method and Compositions for
;    TITLE OF INVENTION:  Identification of Species in a Sample
;    NUMBER OF SEQUENCES:  207
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Trask, Britt and Rossa
;      STREET:  P.O. Box 2550
;      CITY:  Salt Lake City
;      STATE:  Utah
;      COUNTRY:  USA
;      ZIP:  84110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/470,179
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sweigert Ph.D, Susan E.
;      REGISTRATION NUMBER:  36,289
;      REFERENCE/DOCKET NUMBER:  2601
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  801-532-1922
;      TELEFAX:  801-531-9168
;  INFORMATION FOR SEQ ID NO:  147:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  423 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Micrococcus leteus
US-08-470-179-147


  Query Match             49.7%;  Score 19.4;  DB 1;  Length 423;
  Best Local Similarity   79.3%;  Pred. No. 64;
  Matches   23;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      4 agatggccttggtggccttggaaatggcc 32
          |||||||   | ||||| |||| |||| |
Db    263 AGATGGCCCCGCTGGCCATGGAGATGGTC 291


RESULT  12
US-09-248-588-12
; Sequence 12, Application US/09248588
; Patent No. 6231864
; GENERAL INFORMATION:
;  APPLICANT: Birkett, Ashley J.
;  TITLE OF INVENTION: Strategically Modified Hepatitis B Core Proteins and
;  TITLE OF INVENTION: their Derivatives
;  FILE REFERENCE: SYN-101 4564/69529
;  CURRENT APPLICATION NUMBER: US/09/248,588
;  CURRENT FILING DATE: 1999-02-11
;  EARLIER APPLICATION NUMBER: 60/074537
;  EARLIER FILING DATE: 1998-02-12
;  NUMBER OF SEQ ID NOS: 113
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 918
;   TYPE: DNA
;   ORGANISM: Hepatitis B virus
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)..(915)
US-09-248-588-12


  Query Match             49.7%;  Score 19.4;  DB 4;  Length 918;
  Best Local Similarity   79.3%;  Pred. No. 73;
  Matches   23;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy      1 aggagatggccttggtggccttggaaatg 29
          ||||||| || |||||||| ||  || ||
Db    559 aggagattgctttggtggcattacaactg 587


RESULT  13
PCT-US96-10602-9
; Sequence 9, Application PC/TUS9610602
;  GENERAL INFORMATION:
;    APPLICANT:  The General Hospital Corporation
;    TITLE OF INVENTION:  INHIBITION OF HEPATITIS B REPLICATION
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fish & Richardson P.C.
;      STREET:  225 Franklin Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110-2804
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US96/10602
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
```

; APPLICATION NUMBER: 60/017,814
; FILING DATE: 20-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/282001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1263 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
PCT-US96-10602-9

Query Match 49.7%; Score 19.4; DB 5; Length 1263;
Best Local Similarity 79.3%; Pred. No. 78;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 aggagatggccttggtggccttggaaatg 29
||||||| || |||||||| || || ||
Db 430 AGGAGATTGCTTTGGTGGCATTACAACTG 458

RESULT 14
US-08-391-000-41
; Sequence 41, Application US/08391000
; Patent No. 5723752
; GENERAL INFORMATION:
; APPLICANT: HOUTZ, Robert L.
; TITLE OF INVENTION: CLONING AND DEVELOPMENTAL EXPRESSION OF
; TITLE OF INVENTION: PEA RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/OXYGENASE LARGE
; TITLE OF INVENTION: SUBUNIT N-METHYLTRANSFERASE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Burns, Doane, Swecker & Mathis
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/391,000
; FILING DATE: 21-FEB-1995
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Meuth, Donna M.
; REGISTRATION NUMBER: 36,607
; REFERENCE/DOCKET NUMBER: 028750-123
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1801 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 59..1528
US-08-391-000-41

Query Match 49.7%; Score 19.4; DB 1; Length 1801;
Best Local Similarity 70.3%; Pred. No. 83;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 2 ggagatggccttggtggccttggaaatggcctcttat 38
|| ||| |||||| | ||| ||||| | ||| ||
Db 1493 GGCGATATCCTTGGAGACCTAGGAAAATTCTTCTAAT 1529

RESULT 15
US-08-741-931-41
; Sequence 41, Application US/08741931
; Patent No. 5866394
; GENERAL INFORMATION:
; APPLICANT: HOUTZ, Robert L.
; TITLE OF INVENTION: CLONING AND DEVELOPMENTAL EXPRESSION OF
; TITLE OF INVENTION: PEA RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/OXYGENASE LARGE
; TITLE OF INVENTION: SUBUNIT N-METHYLTRANSFERASE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Burns, Doane, Swecker & Mathis
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/741,931
; FILING DATE: 31-OCT-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/391,000
; FILING DATE: 21-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Meuth, Donna M.
; REGISTRATION NUMBER: 36,607
; REFERENCE/DOCKET NUMBER: 028750-123
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1801 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 59..1528
US-08-741-931-41

Query Match 49.7%; Score 19.4; DB 2; Length 1801;
Best Local Similarity 70.3%; Pred. No. 83;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 2 ggagatggccttggtggccttggaaatggcctcttat 38
|| ||| |||||| | ||| ||||| | ||| ||
Db 1493 GGCGATATCCTTGGAGACCTAGGAAAATTCTTCTAAT 1529

Search completed: January 29, 2002, 21:24:42
Job time: 1720 sec